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Replaced by
substitute figures
received ~~2/27/03~~ 12/27/03.

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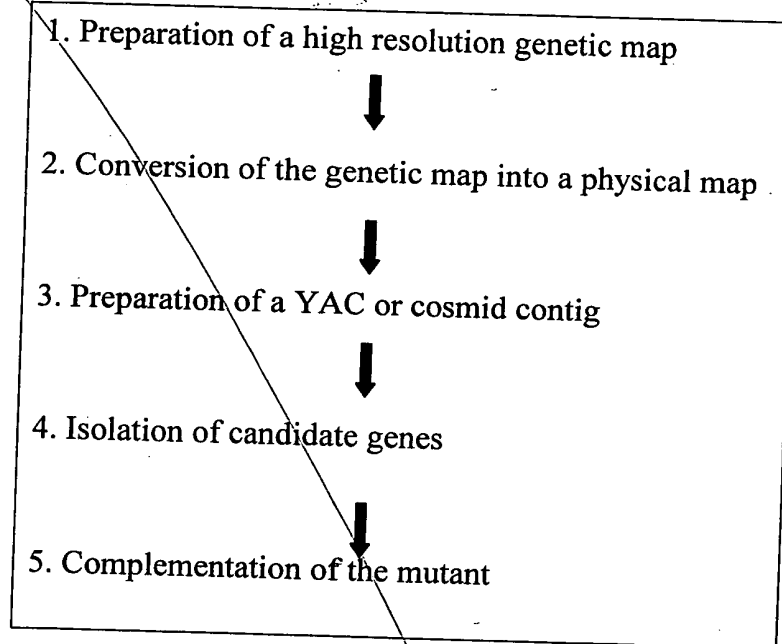


Fig. 1



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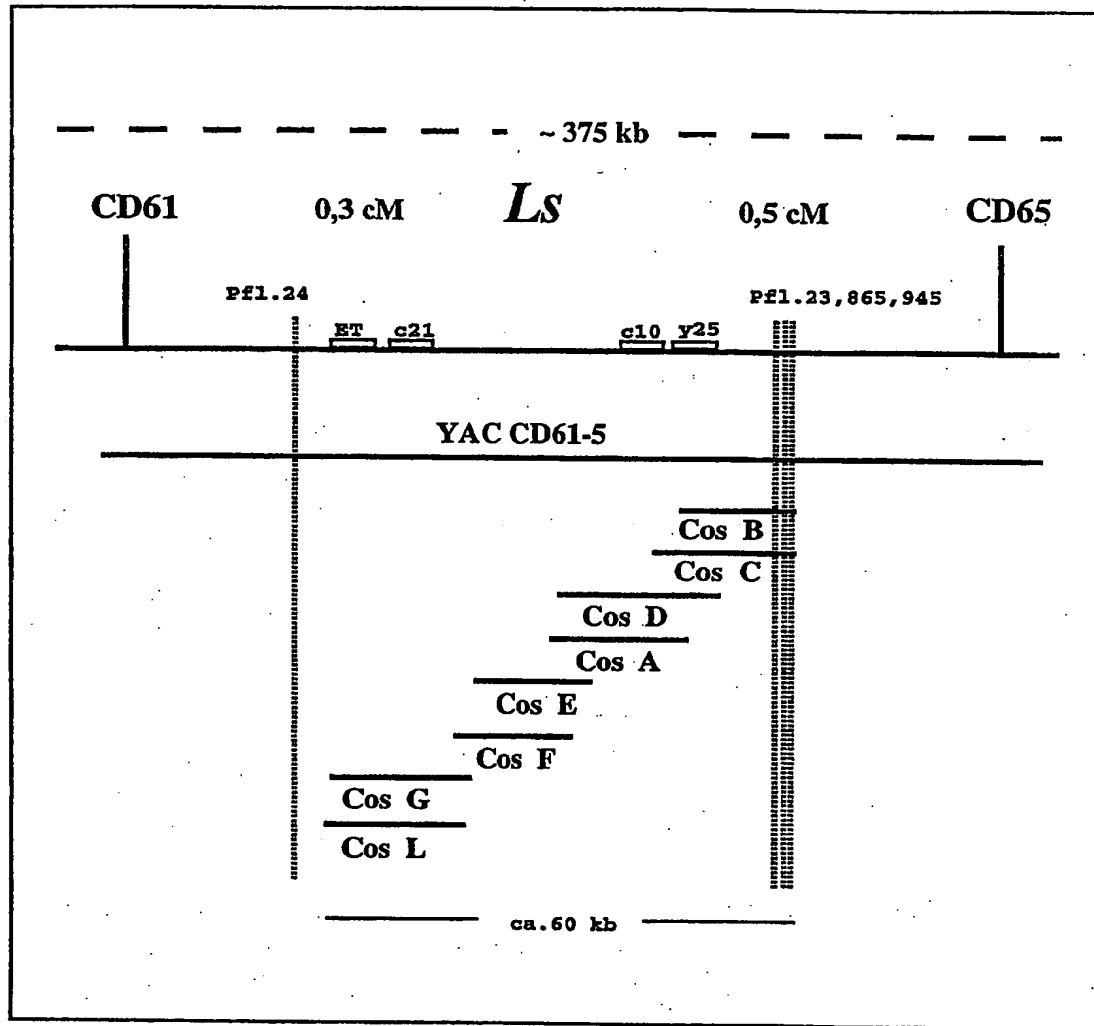
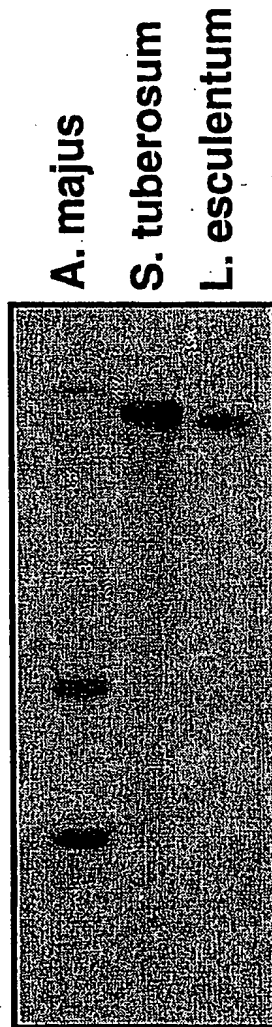


Fig. 3

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**Fig. 4**

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E A N H N H P L F L Q R F I E A L D Y Y
 1081 TACAGCTGTGTTTGATTCACTGGAAGCTACATTGCCACCGGGTAGTCGAGAGAGGATGAC 1140
 T A V F D S L E A T L P P G S R E R M T
 1141 AGTTGAACAAGTGTGGTTTGGGAGAGAGATTGTTGATATCGTTGCGATGGAAGGAGATAA 1200
 V E Q V W F G R E I V D I V A M E G D K
 1201 AAGGAAAGAAAGACATGAAAGGTTTAGATCATGGGAAGTTATGTTGAGGAGTTGTGGATT 1260
 R K E R H E R F R S W E V M L R S C G F
 1261 TAGTAATGTTGCTTTAAGCCCTTTTGCATTATCACAGCTAAGCTTCTTTTGAGACTTCA 1320
 S N V A L S P F A L S Q A K L L L R L H
 1321 TTATCCTTCTGAAGGCTATCAACTCGGAGTTTCGAGTAATTCTTTCTTCTTAGGTTGGCA 1380
 Y P S E G Y Q L G V S S N S F F L G W Q
 1381 AAATCAACCCCTTTTCTCCATCTCGTCTTGGCGTTGAGAAAACTATCAAATAGCCAAC 1440
 N Q P L F S I S S W R
 1441 TCAGAGGGTAATTAAGACTACTGATAGTTTAGGAGGGATCTGAAGAAAACGCGTGGAGTG 1500
 1501 AAAACCTAAATAACCAGATTTTCTAATGAAGTTGTAGTAGTAGAAAATTTGCATGGTGAA 1560
 1561 GAACAATATTGAAGAGGTATTGAAATTTTCATGTTTTTTTTGTTTTACTTATTGATATGAA 1620
 1621 TGTTTTAAAATTTTAAACATAGAGGACTAGGTTGATGATATATAGTATTTAAGTTAACTA 1680
 1681 GTCTTTGTATAACGCAAGATCTTGATCAACTTATTTTTATTTTAAATTA 1729

Fig. 5

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1 CCTCTGTCCTTCCCCCAGGTCCCCCTTTTTCCTTTCTCTCTCTCTCTCTTTATTTCTCTTT 60
 61 TCATAAGCATATTCTTTCTCTCTCTAGGGTTTTCACCTTTCACCTGAAATAGTGTGTTAA 120
 121 ATTGAATGATATGTTAGGATCCTTTGGTTCTTCATCATCTCAATCTCACCCCTCATCATGA 180
 M L G S F G S S S S Q S H P H H D
 181 TGAAGAATCTTCTGATCATCATCAACAGCGTAGATTACCGCTACTGCTACAACATATCAC 240
 E E S S D H H Q Q R R F T A T A T T I T
 241 CACCACCACCATCACTACCTCACCAGCTATTCAAATCCGCCAGCTACTCATTAGCTGTGC 300
 T T T I T T S P A I Q I R Q L L I S C A
 301 GGAGTTGATTTCGCAGTCCGATTTCTCGGCCGCGAAAAGACTCCTTACTATATTATCAAC 360
 E L I S Q S D F S A A K R L L T I L S T
 361 TAACTCATCTCCTTTTGGTGATTCAACTGAACGGTTAGTCCATCAATTTACTCGCGCACT 420
 N S S P F G D S T E R L V H Q F T R A L
 421 TTCCCTTCGTCTCAACCGCTATATATCGTCAACCACCAATCATTTTCATGACACCTGTTGA 480
 S L R L N R Y I S S T T N H F M T P V E
 481 AACAACTCCAACCTGATTCTTCTTCTTCGTATCATTAGCTCTAATTCAATCATCATATCT 540
 T T P T D S S S S S S L A L I Q S S Y L
 541 ATCTCTAAACCAAGTTACCCCTTCATAAGGTTTACTCAATTAACCGCTAATCAAGCGAT 600
 S L N Q V T P F I R F T Q L T A N Q A I
 601 TTTAGAAGCGATTAAACGGTAATCATCAAGCAATCCACATCGTTGATTTTCGACATTAATCA 660
 L E A I N G N H Q A I H I V D F D I N H
 661 CGGGGTTCAATGGCCACCGTTAATGCAAGCACTAGCTGATCGTTACCTGCTCCCACTCT 720
 G V Q W P P L M Q A L A D R Y P A P T L
 721 TCGAATCACCGGTACTCGAAATGACCTTGATACCCCTTCGTAGAACAGGTGATCGTTTAGC 780
 R I T G T G N D L D T L R R T G D R L A
 781 TAAATTTGCTCACTCATTAGGGTTGAGATTTCAATTCCATCCTCTTTATATAGCCAATAA 840
 K F A H S L G L R F Q F H P L Y I A N N
 841 TAACCACGATCACGATGAAGATCCTTCTATTATTTCTCCATTGTACTACTCCCTGATGA 900
 N H D H D E D P S I I S S I V L L P D E
 901 AACCCCTAGCTATCAACTGTGTTTTCTACCTCCACCGCCTTTTAAAAGACCGCGAAAAGTT 960
 T L A I N C V F Y L H R L L K D R E K L
 961 AAGGATTTTTTTTCATAGGGTTAAGTCAATGAACCCCTAAAATTGTTACAATCGCGGAGAA 1020
 R I F L H R V K S M N P K I V T I A E K
 1021 GGAAGCAAATCATAACCATCCTCTTTTTTTTACAAAGATTCATCGAGGCGTTGGATTATTA 1080

Fig. 5 contd.

841 AGGATTTTTTTTGCATAGGGTTAAGTCAATGAACCCTAAAATTGTTACAATCGCGGAGAAG 900
281 R I F L H R V K S M N P K I V T I A E K 300
901 GAAGCAAATCATAACCATCCTCTTTTTTTTACAAAGATTTATCGAGGCGTTGGATTATTAT 960
301 E A N H N H P L F L Q R F I E A L D Y Y 320
961 ACAGCTGTGTTTGATTCAATTGGAAGCTACATTGCCACCGGGTAGTCGTGAGAGGATGACA 1020
321 T A V F D S L E A T L P P G S R E R M T 340
1021 GTTGAACAAGTGTGGTTTGGGAGAGAAATTGTTGATATCGTGGCGATGGAAGGAGATAAA 1080
341 V E Q V W F G R E I V D I V A M E G D K 360
1081 AGGAAAGAAAGACATGAAAGGTTTAGATCATGGGAAGTTATGTTGAGGAGTTGTGGATTT 1140
361 R K E R H E R F R S W E V M L R S C G F 380
1141 AGTAATGTTGCTTTAAGCCCTTTTGCATTATCACAAGCTAAGCTTCTTTTGAGACTACAT 1200
381 S N V A L S P F A L S Q A K L L L R L H 400
1201 TATCCTTCTGAAGGCTATCAACTCGGAGTTTCGAGTAATTCTTTCTTCTTAGGTTGGCAA 1260
401 Y P S E G Y Q L G V S S N S F F L G W Q 420
1261 AATCAACCTCTTTTCTCCATCTCGTCTTGGCGTTGA 1296
421 N Q P L F S I S S W R * 432

Fig. 6

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1 ATGTTAGGATCCTTTGGTTCTTCATCATCTCAATCTCACCCCTCATCATGATGAAGAATCT 60
 1 M L G S F G S S S S Q S H P H H D E E S 20
 61 TCTGATCATCATCAACGGCGTAGATTACCGCTACTACTACAACTATCACCACCACCACC 120
 21 S D H H Q R R R F T A T T T T I T T T T 40
 121 ACAACGACCTCACCAGCTATTCAAATCCGCCAGCTACTCATTAGCTGTGCGGAGTTGATT 180
 41 T T T S P A I Q I R Q L L I S C A E L I 60
 181 TCGCGGTCCGATTTCTCGGCCGCGAAAAGACTCCTTACCATATTATCAACTAACTCTTCT 240
 61 S R S D F S A A K R L L T I L S T N S S 80
 241 CCTTTTGGTGATTCAACTGAACGGTTAGTCCATCAGTTTACTCGCGCACTTTCCTTCGT 300
 81 P F G D S T E R L V H Q F T R A L S L R 100
 301 CTCAACCGCTATATATCGTCAACCACCAATCATTTCATGACACCTGTTGAAACAACCTCCA 360
 101 L N R Y I S S T T N H F M T P V E T T P 120
 361 ACTGATTCTTCATCTTCGTTGCCATCGTCATCATTAGCTCTAATTCAATCATCATATCAT 420
 121 T D S S S S L P S S S L A L I Q S S Y H 140
 421 TCTCTAAATCAAGTTACCCCTTTTATAAGGTTTACTCAATTAACCGCTAATCAAGCGATT 480
 141 S L N Q V T P F I R F T Q L T A N Q A I 160
 481 TTAGAAGCGATTAACGGTAATCATCAAGCAATCCACATCGTTGATTTGACATTAATCAC 540
 161 L E A I N G N H Q A I H I V D F D I N H 180
 541 GGGGTTCAATGGCCACCGTTAATGCAAGCACTAGCTGATCGTTACCCTGCTCCTACTCTT 600
 181 G V Q W P P L M Q A L A D R Y P A P T L 200
 601 CGAATCACCGGTACTGGAAATGACCTTGATACCCTTCGTAGAACAGGTGATCGTTTAGCT 660
 201 R I T G T G N D L D T L R R T G D R L A 220
 661 AAATTTGCTCACTCATTAGGGTTGAGATTTCAATTCCATCCTCTTTATATCGCCAATAAT 720
 221 K F A H S L G L R F Q F H P L Y I A N N 240
 721 AACCGGATCACGGTGAAGATCCTTCTATTATTCTCCATTGTACTTCTCCCTGATGAA 780
 241 N R D H G E D P S I I S S I V L L P D E 260
 781 ACCCTAGCTATCAACTGTGTTTTCTATCTCCACCGCCTTTTAAAAGACCGCGAAAAATTA 840
 261 T L A I N C V F Y L H R L L K D R E K L 280

Fig. 6 contd.

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1 GAGAGGTCATCAAACCCTAGCAGTCCACCTCCATCTCTCCGCATAACCGGATGCGGTCTGA 60
E R S S N P S S P P P S L R I T G C G R
61 GATGTAACCGGATTAAACCGAACTGGAGACCGGTTAACCCGGTTCGCTGACTCTTTAGGT 120
D V T G L N R T G D R L T R F A D S L G
121 CTCCAATTCCAGTTTCACACGCTAGTGATCGTAGAAGAAGATCTCGCCGGACTTTTGCTA 180
L Q F Q F H T L V I V E E D L A G L L L
181 CAGATCCGATTGTTAGCTCTCTCAGCCGTACAAGGAGAGACCATTGCCGTCAATTGTGTT 240
Q I R L L A L S A V Q G E T I A V N C V
241 CACTTCCTCCACAAAATATTTAACGACGATGGAGATATGATCGGTCACTTCTTGTGTCAGCG 300
H F L H K I F N D D G D M I G H F L S A
301 ATCAAGAGCTTAAACTCTAGAATCGTTACAATGGCAGAGAGAGAAGCTAATCATGGAGAT 360
I K S L N S R I V T M A E R E A N H G D
361 CACTCGTTCTTGAATAGATTCTCTGAGGCAGTGGATCATTACATGGCGATCTTTGATTCTG 420
H S F L N R F S E A V D H Y M A I F D S
421 TTGGAAGCGACGTTGCCGCCAAATAGCCGAGAGAGACTAACCCTAGAGCAACGGTGGTTC 480
L E A T L P P N S R E R L T L E Q R W F
481 GGTAAGGAGATTTTGGATGTTGTGGCGGCGGAAGAGACGGAGAGAAAGCAAAGACATCGG 540
G K E I L D V V A A E E T E R K Q R H R
541 AGGTTTGAGATTTGGGAAGAGATGATGAAGAGGTTTGGTTTCGTTAACGTTCTTATTGGA 600
R F E I W E E M M K R F G F V N V P I G
601 AGCTTTGCTTTGTCTCAAGCTAAGCTTCTTCTTAGACTTCATTATCCTTCAGAAGGTTAT 660
S F A L S Q A K L L L R L H Y P S E G Y
661 AATCTTCAGTTCCTTAACAATTCTTTG 687
N L Q F L N N S L

Fig. 7

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LsAt	1	MLGSFGSSSSQSHPHHDEESSDHHQRRRTATATTTT	TTTSPAIQIRQLLISCAELI
LsLe	1	MLGSFGSSSSQSHPHHDEESSDHHQRRRTATATTTT	TTTSPAIQIRQLLISCAELI
LsSt	1	MLGSFGSSSSQSHPHHDEESSDHHQRRRTATATTTT	TTTSPAIQIRQLLISCAELI
LsAt	1	SDFSAAKRLTILSTNSSPFGDSTERLVHQFTRALSRLNR	YISSTTNHFMTPVETTP
LsLe	61	SDFSAAKRLTILSTNSSPFGDSTERLVHQFTRALSRLNR	YISSTTNHFMTPVETTP
LsSt	61	SDFSAAKRLTILSTNSSPFGDSTERLVHQFTRALSRLNR	YISSTTNHFMTPVETTP
LsAt	1	TDSSSSSSSLALIQSSYSLNQVTPFIRFTQLTANQAILEA	INGNHQAIHIVDFDINH
LsLe	121	TDSSSSSSSLALIQSSYSLNQVTPFIRFTQLTANQAILEA	INGNHQAIHIVDFDINH
LsSt	121	TDSSSSSSSLALIQSSYSLNQVTPFIRFTQLTANQAILEA	INGNHQAIHIVDFDINH
LsAt	1	ERSSNPSSPPRLRITGGRDGLNRTGDRLLT	ADSLGLDQFQFHLVIVEE
LsLe	178	EVQWPPLMQALADRYPAPTLLRITGTGNDLDTLRR	TGDRLLTADSLGLDQFQFHLVIAN
LsSt	181	EVQWPPLMQALADRYPAPTLLRITGTGNDLDTLRR	TGDRLLTADSLGLDQFQFHLVIAN
LsAt	54	LAGLLQIRLALSAVQGETANCVHHLHFNDD	SEMHGHFLSAKSNRIVTAE
LsLe	238	NHEDPSIISIVLLPDETALAINCVFYLHRLK	DREKLRIFLHRVKSMNPKIVTIAE
LsSt	241	NHEDPSIISIVLLPDETALAINCVFYLHRLK	DREKLRIFLHRVKSMNPKIVTIAE
LsAt	114	KEANHGDHSFLRFS	EAADHMAFDSLEATLPPNSRERT
LsLe	297	KEANHGDHSFLRFS	EAADHMAFDSLEATLPPNSRERT
LsSt	300	KEANHGDHSFLRFS	EAADHMAFDSLEATLPPNSRERT
LsAt	174	ERKRRHRFRF	EIFWEEMRFRGFVNVPGSFALSOAKLLRLHYPSEGY
LsLe	357	ERKRRHRFRF	EIFWEEMRFRGFVNVPGSFALSOAKLLRLHYPSEGY
LsSt	360	ERKRRHRFRF	EIFWEEMRFRGFVNVPGSFALSOAKLLRLHYPSEGY
LsAt	230	DNQPLFSIS	SWR
LsLe	417	DNQPLFSIS	SWR
LsSt	420	DNQPLFSIS	SWR

Fig. 8